



U.S. Department
of Transportation
**Pipeline and
Hazardous Materials
Safety Administration**

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE USA/0618/S-96, REVISION 3**

East Building, PHH-23
1200 New Jersey Avenue Southeast
Washington, D.C. 20590

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive material.

1. Source Identification - QSA Global, Inc. Model X.2109 (Manufactured on or after September 28, 1987).
2. Source Description - Double encapsulation, cylindrically shaped, annular source capsule made of stainless steel. Welds are by tungsten inert gas or laser method. Approximate outer dimensions are 76.0 mm (2.99 in.) in diameter and 135.1 mm (5.32 in.) in length. Construction shall be in accordance with attached AEA Technology QSA, Inc. Drawing No. RBA61944, Rev. A.
3. Radioactive Contents - No more than 925 GBq (25 Ci) Americium-241 oxide mixed with beryllium powder and pressed into a solid pellet.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the applicable requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires on October 31, 2017.

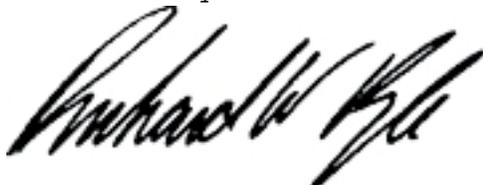
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

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This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the September 17, 2012 petition by QSA Global, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified By:



Oct 03 2012

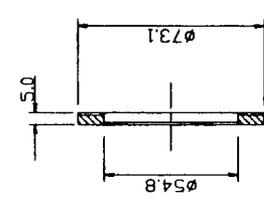
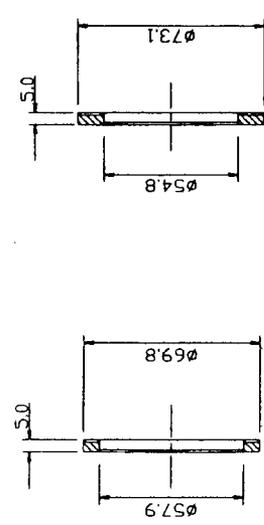
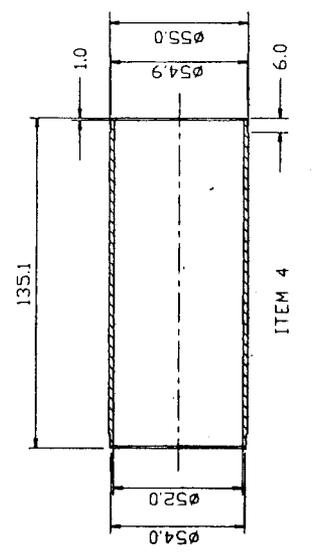
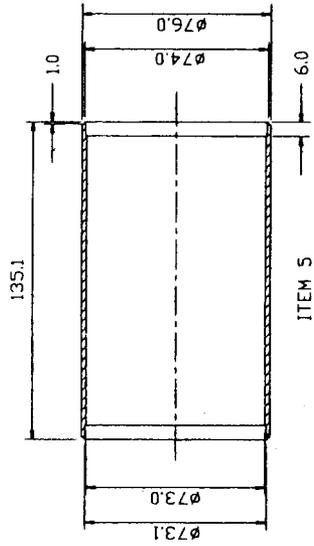
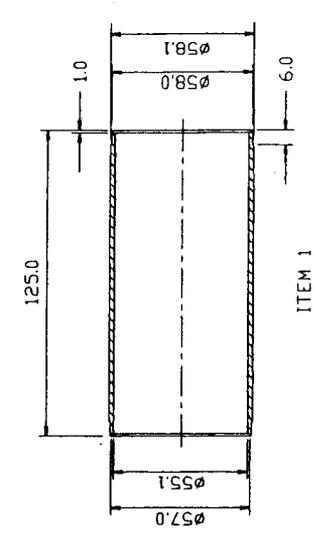
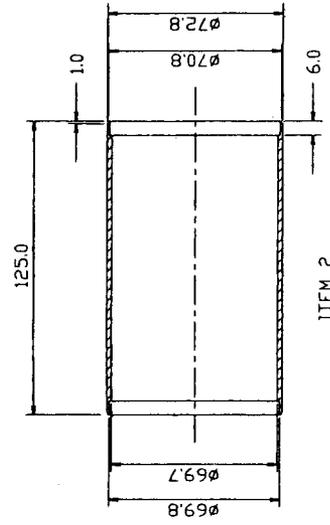
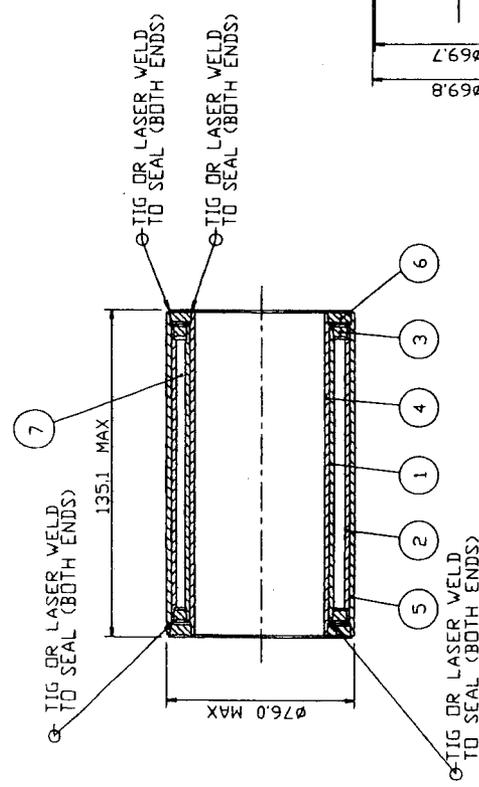
(DATE)

Dr. Magdy El-Sibaie

Associate Administrator for Hazardous Materials Safety

Revision 3 - Issued to extend the expiration date.

Item #	Description	Qty.
1	CELL BODY INNER STAINSTL.	1
2	CELL BODY OUTER STAINSTL.	1
3	CELL LID STAINSTL.	.2
4	SHEATH BODY INNER STAINSTL.	1
5	SHEATH BODY OUTER STAINSTL.	1
6	SHEATH LID STAINSTL.	2
7	ACTIVE MATERIAL	AR



APPROVALS
[Signature]
[Signature]
 2 Jan 03



DESCRIPTIVE DRAWING

DIMENSIONS IN MILLIMETERS
 UNLESS OTHERWISE STATED TOLERANCES:
 X X ±0.5
 X X X ±0.05
 ANGULAR ±5'

TITLE X2109 CAPSULE ASSEMBLY
 SIZE DWG. NO. RBA61944
 SCALE: NONE SHEET 1 OF 1
 REV A

ERF # 406



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1200 New Jersey Avenue SE
Washington, D.C. 20590

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Safety Administration**

CERTIFICATE NUMBER: USA/0618/S-96, Revision 3

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